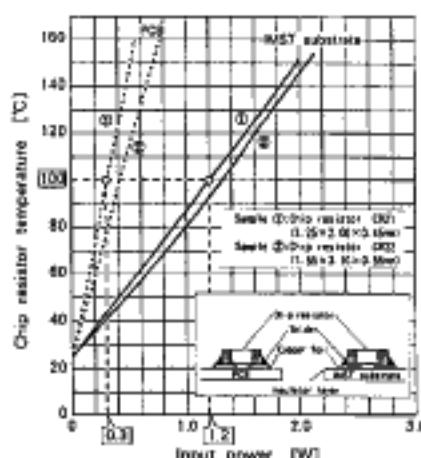


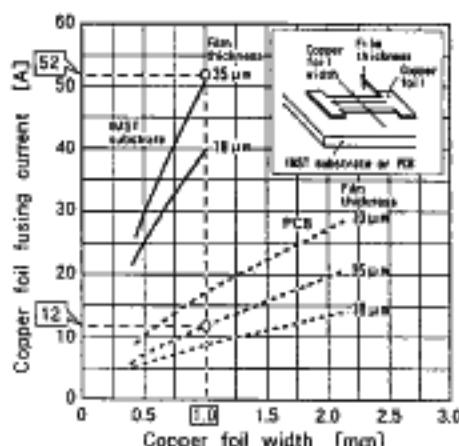
# ■ Features of the IMST® Hybrid ICs

## ■ Excellent heat dissipation

- One of the most influential factors determining reliability of electronic devices is "heat". The IMST substrate is most suitable for the field of power electronics, dissipating heat efficiently.



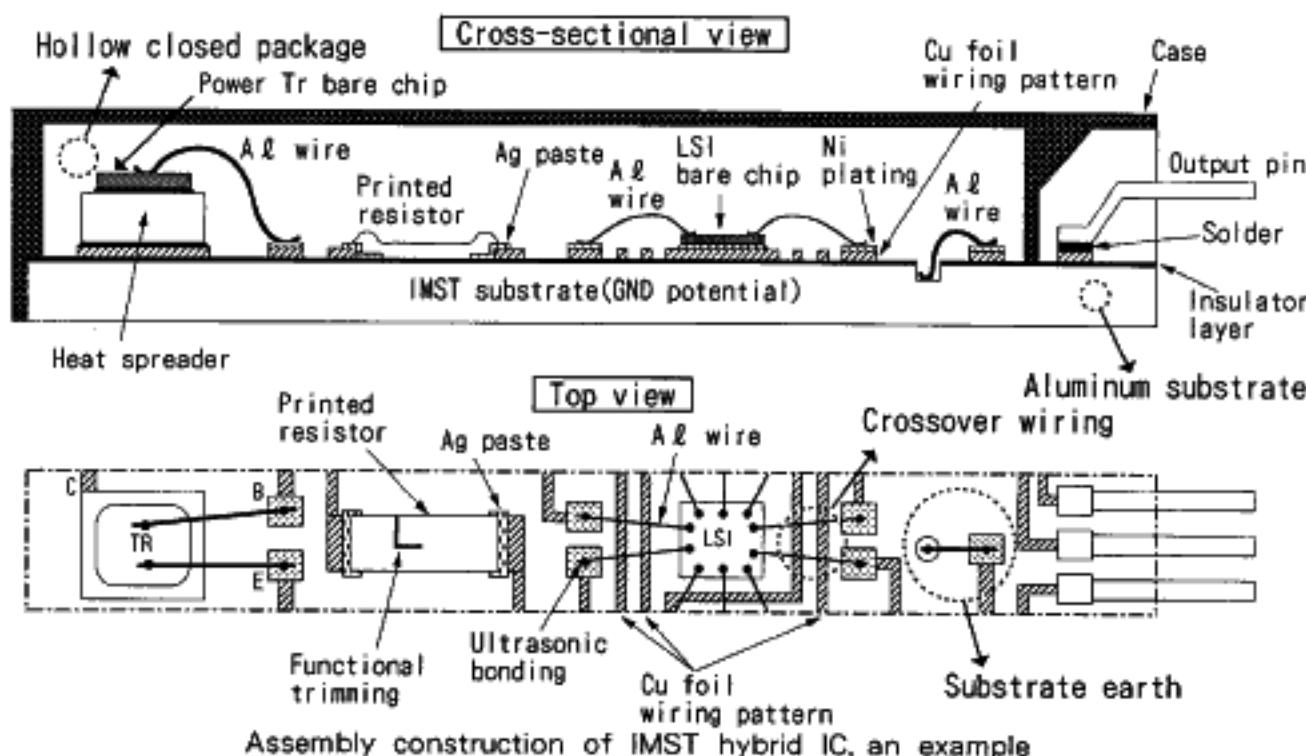
Comparison of chip resistor temperature rises  
[IMST's values are about 1/4 of PCB's.]



Comparison of copper foil fusing currents  
[IMST's values are about 4 times of PCB's.]

## ■ High reliability

- Wiring is applied by mounting semiconductor bare chips directly and bonding aluminum wires. This reduces number of soldering points assuring high reliability.



## ■ Excellent electromagnetic shielding

- Excellent electromagnetic shielding can be attained by putting the entire substrate on the ground potential because the base substrate is made of aluminum. This eliminates noise errors in the digitalized electronic devices.

# ■ Features of STK Series Audio Power ICs

## ■ Ample lineup

- STK series lineup is ample and standard based whereas the current hybrid IC market tends to customization.

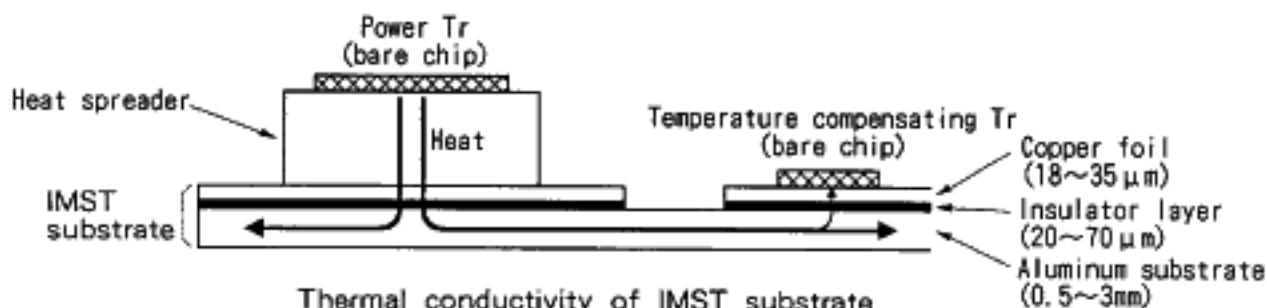
Output power (per channel) : 5 to 200W  
Total harmonic distortion : 10 to 0.005 %  
Number of channels : 1 to 3ch.  
Load impedance : 1 to 8Ω

## ■ Pin compatibility

- The design takes pin compatibility of the hybrid IC output pin important so that a same PCB can be used for various set grades such as output capacity and distortion factor.

## ■ Excellent thermal stability

- The IMST substrate of excellent heat dissipation naturally assures excellent thermal conductivity. Temperature of the output transistor can be almost the same as the temperature compensating transistor, preventing thermal runaway.



## ■ Decreasing adjustment processes

- Adjustments of the neutral voltage of the power output stage and the quiescent current are done by functional trimming inside the hybrid IC.  
This eliminates adjustment processes saving on the production procedure.

## ■ Reducing the term for design

- The audio output stage remains analog however digitalization technology may advance.  
Design of the analog power output stage, which is considered requiring the designer's experience and skill, can be simplified by employing hybrid ICs.  
This reduces the term for design and saves on the design procedure.

## ■ Decreasing number of parts

- The product of STK series decreases the total number of parts required for a unit, allowing to reduce its size, certain assembly manpower, simplify material control, improve serviceability and reduce cost.

## ■ No smoke for fire

- Since the product of STK series is designed so to emit no smoke nor fire in any abnormality, it facilitates to obtain safety approvals.

## ■ Line-up of Audio power Amplifier ICs

Power Supply	+Power Supply		±Power Supply								
Channel Number	1ch	2ch	1ch	2ch							
Load	1~8Ω		4~8Ω								
THD	10%	1%	0.4%	0.08%	0.008%	0.4%					
Pin-compatible	↔	↔	↔	↔	↔	↔					
Series name	STK4065 (Page 7)	STK4017 (Page 7)	STK4332 (Page 7)	STK4024 II (Page 8)	STK4024 V (Page 8)	STK4028 X (Page 8)	STK4036 XI (Page 8)	STK4144MK2 (Page 9)	STK4144MK5 (Page 9)	STK4145MK2 (Page 9)	STK4145MK5 (Page 9)
Output Power/channel	5W		STK4332								
	7W		STK4017 STK4352								
	10W		STK4019 STK4362								
	12W		STK4372								
	15W		STK4021 STK4392								
	20W		STK4023 STK4412 STK4024 II STK4024 V								
	25W		STK4025 STK4432 STK4026 II STK4026 V					STK4144MK2 STK4144MK5	STK4145MK2 STK4145MK5		
	30W			STK4028 II STK4028 V STK4028 X				STK4154MK2 STK4154MK5	※ STK4155MK2 STK4155MK5		
	35W	STK4065		STK4030 II STK4030 V				STK4164MK2 STK4164MK5	STK4165MK2 STK4165MK5		
	40W			STK4032 II	STK4032 X			STK4174MK2 STK4174MK5	※ STK4175MK2 STK4175MK5		
	45W				STK4034 X			STK4184MK2 STK4184MK5	※ STK4185MK2 STK4185MK5		
	50W			STK4036 II STK4036 V STK4036 X STK4036 XI				※ STK4194MK2 STK4194MK5	※ STK4195MK2 STK4195MK5		
	60W	STK4067		STK4038 II		STK4038 XI	STK4204MK2 STK4204MK5	STK4205MK2 STK4205MK5			
	70W			STK4040 II STK4040 V STK4040 X STK4040 XI	STK4214MK2 STK4214MK5	STK4215MK2 STK4215MK5					
	80W			STK4042 II STK4042 V	STK4042 XI	※ STK4224MK2 STK4224MK5	STK4225MK2 STK4225MK5				
	100W			STK4044 II STK4044 V STK4044 X STK4044 XI	STK4234MK2 STK4234MK5	STK4235MK2 STK4235MK5					
120W			STK4046 V	STK4046 XI							
150W			STK4048 II STK4048 V	STK4048 XI							
200W			STK4050 II STK4050 V							※ : Under development	

Car-use  
BTL

Pure -  
com.

Built-in  
Self recovery type  
Protection circuit

Built-in  
Latch type  
Protection circuit

±Power Supply		±Power Supply × 2		±Power Supply		Power Supply						
2ch	3ch	2ch	2ch	2ch	2ch	2ch	Power Supply					
3~6 Ω		4~8 Ω		2~8 Ω		Load						
0.4%	0.08%	0.4%	0.08%	0.4%	0.08%	0.4%	0.08%					
0.02% 0.05% 0.005%							THD					
Pin-compatible							Pin-compatible					
STK401-010 (Page 10)	STK401-210 (Page 10)	STK400-010 (Page 11)	STK400-210 (Page 11)	STK400-450 (Page 11)	STK400-650 (Page 12)	STK4102 II (Page 12)	STK4201 II (Page 12)	STK4121 V (Page 12)	STK4141 X (Page 12)	STK4196 X (Page 12)	STK350-000 (Page 7)	Series name
STK401-010	STK401-210	STK400-010	STK400-210	STK400-450	STK400-650	STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	5W
STK401-010	STK401-210	STK400-010	STK400-210	STK400-450	STK400-650	STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	7W
STK401-010	STK401-210	STK400-010	STK400-210	STK400-450	STK400-650	STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	10W
STK401-020	STK401-220	STK400-020	STK400-220	STK400-450	STK400-650	STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	12W
STK401-030	STK401-230	STK400-030	STK400-230	STK400-450	STK400-650	STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	15W
STK401-040	STK401-240	STK400-040	STK400-240	STK400-450	STK400-650	STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	20W
STK401-050	STK401-250	STK400-050	STK400-250	STK400-450 (L, Rch. 15W)	STK400-650 (L, Rch. 15W)	STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	25W
STK401-060	STK401-260	STK400-060	STK400-260	STK400-450 (L, Rch. 15W)	STK400-650 (L, Rch. 15W)	STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	30W
STK401-070	STK401-270	STK400-070	STK400-270	STK400-450 (L, Rch. 20W)	STK400-650 (L, Rch. 20W)	STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	35W
STK401-080	STK401-280	STK400-080	STK400-280	STK400-450 (L, Rch. 20W)	STK400-650 (L, Rch. 20W)	STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	40W
STK401-090	STK401-290	STK400-090	STK400-290	STK400-450 (L, Rch. 25W)	STK400-650 (L, Rch. 25W)	STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	45W
STK401-100	STK401-300	STK400-100	STK400-300	STK400-500 (L, Rch. 30W)	STK400-700 (L, Rch. 30W)	STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	50W
STK401-110	STK401-310	STK400-110	STK400-310	STK400-510 (L, Rch. 35W)	STK400-710 (L, Rch. 35W)	STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	60W
STK401-120	STK401-320			STK400-520 (L, Rch. 40W)	STK400-720 (L, Rch. 40W)	STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	70W
STK401-130	STK401-330			STK400-530 (L, Rch. 50W)	STK400-730 (L, Rch. 50W)	STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	80W
STK401-140	STK401-340					STK4102 II	STK4201 II	STK4121 V	STK4141 X	STK4196 X	STK350-000	100W
												120W
												150W
												200W

\* : Under development

3ch.  
Same output power

3ch.  
Different output power  
(2ch + Center ch.)

Built-in Muting circuit

2Ω  
Load

Voltage  
amplifier

# Main Characteristics

## ■ STK4065 series

Type Number	Output power Po[W]			THD[%]	Vcc max[V]	Vcc [V]	Case outline	Features
	R <sub>L</sub> = 4 Ω	R <sub>L</sub> = 2 Ω	R <sub>L</sub> = 1 Ω					
STK4065	23	35	-	10	18	13.2	46.5 × 25.5 × 8.5 (No. 4081)	◆Car-stereo use ◆BTL
STK4067	23	40	60				64 × 31 × 8.5 (No. 4131)	◆Pin-compatible

## ■ STK4017 series

Type Number	Output power Po[W]	THD[%]	Vcc max[V]	Vcc [V]		Case outline	Features
				R <sub>L</sub> = 8 Ω	R <sub>L</sub> = 4 Ω		
STK4017	6.5	1.0	45	26.4	26.4	46.5 × 25.5 × 8.5 (No. 4021B)	◆1ch./1package ◆+power supply ◆Pin-compatible
STK4019	10.0		54	32.0	29.0		
STK4021	15.0		64	38.0	34.0		
STK4023	20.0		73	44.0	38.0		
STK4025	25.0		80	48.0	44.0		

## ■ STK4332 series

Type Number	Output power Po[W]	THD[%]	Vcc max[V]	Vcc [V]		Case outline	Features	
				R <sub>L</sub> = 8 Ω	R <sub>L</sub> = 4 Ω			
STK4332	5 + 5	1.0	32	23	21	59.2 × 25.5 × 8.5 (No. 4032A)	◆2ch./1package ◆+power supply ◆Pin-compatible	
STK4352	7 + 7		39	27	25			
STK4362	10 + 10		50	33	28			
STK4372	12 + 12		54	35	31			
STK4392	15 + 15		56	39	36			
STK4412	20 + 20		63	44	40	59.2 × 31 × 8.5 (No. 4033)		
STK4432	25 + 25		70	49	44			

## ■ STK350 ~ 000 series

Type Number	Output power Po[W]	THD[%]	Vcc max[V]	Vcc [V]		Case outline	Features
				R <sub>L</sub> = 8 Ω	R <sub>L</sub> = 4 Ω		
STK350 - 000	40 ~ 60	0.005	± 55	± 36		53 × 22 × 9 (No. 4147)	◆Voltage amplifier ◆Pin-compatible
STK350 - 010	60 ~ 80		± 59	± 41			
STK350 - 020	80 ~ 90		± 65	± 47			
STK350 - 030	90 ~ 100		± 75	± 50			
STK350 - 040	100 ~ 120		± 80	± 55			
STK350 - 050	120 ~ 150		± 90	± 60			

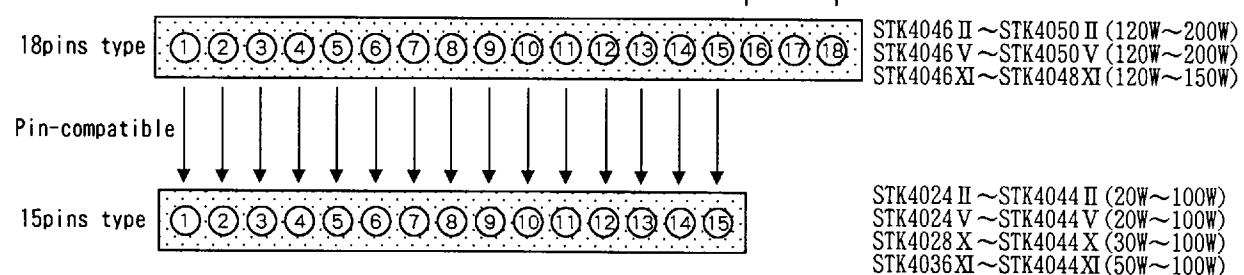
※ : Under development

■ STK4024 II series / STK4024 V series / STK4028 X series / STK4036 XI series

Type Number	Output power Po [W]	THD [%]	Vcc max [V]	Vcc [V]		Case outline	Features	
				R <sub>L</sub> = 8 Ω	R <sub>L</sub> = 4 Ω			
STK4024 II	20	0.4	± 34.5	± 23.0	± 20.0	59.2 × 31 × 8.5 (No. 4033)	<ul style="list-style-type: none"> <li>◆ 1ch. / 1package</li> <li>◆ ± Power supply</li> <li>◆ Pin-compatible with STK4036XI series</li> </ul>	
STK4026 II	25		± 38.0	± 26.0	± 22.0			
STK4028 II	30		± 42.0	± 27.5	± 25.0			
STK4030 II	35		± 45.0	± 30.0	± 27.0			
STK4032 II	40		± 48.0	± 32.0	± 29.0			
STK4036 II	50		± 52.0	± 35.0	± 31.0			
STK4038 II	60		± 57.0	± 38.0	± 32.5			
STK4040 II	70		± 60.0	± 42.0	—			
STK4042 II	80		± 65.0	± 45.0	—			
STK4044 II	100		± 73.0	± 51.0	—			
STK4048 II	150		± 86.0	± 59.0	—			
STK4050 II	200		± 95.0	± 66.0	—			
STK4024 V	20	0.08	± 37.0	± 24.5	± 21.5	64 × 31 × 8.5 (No. 4062)	<ul style="list-style-type: none"> <li>◆ 1ch. / 1package</li> <li>◆ ± Power supply</li> <li>◆ Pin-compatible with STK4036XI series</li> </ul>	
STK4026 V	25		± 39.0	± 26.0	± 22.0			
STK4028 V	30		± 42.0	± 27.5	± 25.0			
STK4030 V	35		± 46.0	± 30.0	± 27.0			
STK4036 V	50		± 52.0	± 35.0	± 31.0			
STK4040 V	70		± 62.0	± 42.0	± 36.0			
STK4042 V	80		± 65.0	± 45.0	—			
STK4044 V	100		± 73.0	± 51.0	—			
STK4046 V	120		± 80.0	± 55.0	—			
STK4048 V	150		± 87.0	± 60.0	—			
STK4050 V	200		± 95.0	± 66.0	—			
STK4028 X	30	0.008	± 42.0	± 29.0	± 26.0	64 × 31 × 8.5 (No. 4062)	<ul style="list-style-type: none"> <li>◆ 1ch. / 1package</li> <li>◆ ± Power supply</li> <li>◆ Pure-complementary</li> <li>◆ Pin-compatible with STK4024 II series,</li> <li>◆ STK4024 V series,</li> <li>◆ STK4028 X series</li> </ul>	
STK4032 X	40		± 49.0	± 33.5	± 30.0			
STK4034 X	45		± 50.0	± 35.0	± 31.0			
STK4036 X	50		± 52.0	± 36.5	± 31.5			
STK4040 X	70		± 62.0	± 42.5	± 36.0			
STK4044 X	100	0.018	± 74.0	± 51.0	—	64 × 36.5 × 8.5 (No. 4075)	<ul style="list-style-type: none"> <li>◆ 1ch. / 1package</li> <li>◆ ± Power supply</li> <li>◆ Pure-complementary</li> <li>◆ Pin-compatible with STK4024 II series,</li> <li>◆ STK4024 V series,</li> <li>◆ STK4028 X series</li> </ul>	
STK4036 XI	50	0.008	± 53.5	± 37.0	—	64 × 36.5 × 8.5 (No. 4075)		
STK4038 XI	60		± 58.0	± 40.0	—			
STK4040 XI	70		± 63.0	± 43.5	—			
STK4042 XI	80		± 67.0	± 46.5	—			
STK4044 XI	100		± 74.0	± 51.0	—			
STK4046 XI	120		± 80.0	± 55.0	—			
STK4048 XI	150		± 87.0	± 60.0	—	78 × 44 × 9 (No. 4151A)		

【Pin – compatibility of Output pins】

Pins for  
parallel push-pull



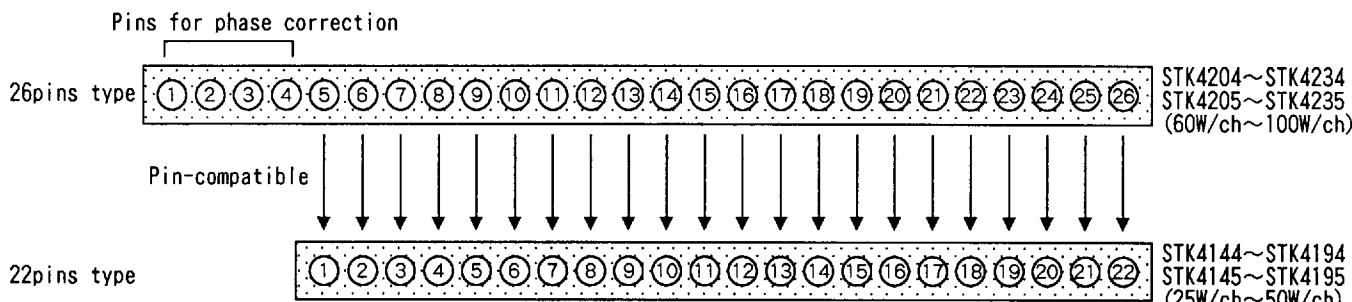
# Main Characteristics

## ■ STK4144MK2 series / STK4144MK5 series / STK4145MK2 series / STK4145MK5 series

Type Number	Output power Po [W]	THD [%]	Vcc max [V]	Vcc [V] RL = 8 Ω RL = 4 Ω	Equivalent circuit	Case outline	Features	
STK4144MK2	25 + 25	0.4	± 40.0	± 27.0 ± 22.0	Fig.1	78×44×9 (No. 4086A)	<ul style="list-style-type: none"> <li>◆ Built-in Self recovery type Protection circuit</li> <li>◆ 2ch. /1package</li> <li>◆ ± Power supply</li> <li>◆ Pin-compatible with STK4145MK2 series, STK4145MK5 series</li> </ul>	
STK4154MK2	30 + 30		± 42.0	± 28.0 ± 25.0				
STK4164MK2	35 + 35		± 45.0	± 30.5 ± 26.5				
STK4174MK2	40 + 40		± 48.0	± 32.0 ± 28.0				
STK4184MK2	45 + 45		± 50.0	± 33.5 ± 30.0				
* STK4194MK2	50 + 50		± 52.5	± 35.0 ± 32.0				
STK4204MK2	60 + 60		± 55.0	± 38.5 —	Fig.2	90×53×8.5 (No. 4110A)		
STK4214MK2	70 + 70		± 60.0	± 42.0 —				
* STK4224MK2	80 + 80		± 65.0	± 45.0 —				
STK4234MK2	100 + 100		± 75.0	± 51.0 —				
STK4144MK5	25 + 25	0.08	± 40.5	± 27.0 ± 24.0	Fig.3	78×44×9 (No. 4086A)	<ul style="list-style-type: none"> <li>◆ ± Power supply</li> <li>◆ Pin-compatible with STK4145MK2 series, STK4145MK5 series</li> </ul>	
STK4154MK5	30 + 30		± 42.0	± 28.5 ± 25.0				
STK4164MK5	35 + 35		± 46.0	± 30.5 ± 26.5				
* STK4174MK5	40 + 40		± 49.0	± 32.5 ± 28.0				
STK4184MK5	45 + 45		± 51.0	± 34.0 ± 30.0				
STK4194MK5	50 + 50		± 53.0	± 35.5 ± 32.0				
STK4204MK5	60 + 60		± 57.0	± 39.0 —	Fig.4	90×53×8.5 (No. 4110A)		
* STK4214MK5	70 + 70		± 62.0	± 43.0 —				
STK4224MK5	80 + 80		± 65.0	± 45.0 —				
STK4234MK5	100 + 100		± 75.0	± 51.0 —				
STK4145MK2	25 + 25	0.4	± 40.0	± 27.0 ± 22.0	Fig.5	78×44×9 (No. 4086A)	<ul style="list-style-type: none"> <li>◆ Built-in Latch type Protection circuit</li> <li>◆ 2ch. /1package</li> <li>◆ ± Power supply</li> <li>◆ Pin-compatible with STK4144MK2 series, STK4144MK5 series</li> </ul>	
* STK4155MK2	30 + 30		± 42.0	± 28.0 ± 25.0				
STK4165MK2	35 + 35		± 45.0	± 30.5 ± 26.5				
* STK4175MK2	40 + 40		± 48.0	± 32.0 ± 28.0				
STK4185MK2	45 + 45		± 50.0	± 33.5 ± 30.0				
* STK4195MK2	50 + 50		± 52.5	± 35.0 ± 32.0				
STK4205MK2	60 + 60		± 55.0	± 38.5 —	Fig.6	90×53×8.5 (No. 4110A)		
STK4215MK2	70 + 70		± 60.0	± 42.0 —				
STK4225MK2	80 + 80		± 65.0	± 45.0 —				
STK4235MK2	100 + 100		± 75.0	± 51.0 —				
STK4145MK5	25 + 25	0.08	± 40.5	± 27.0 ± 24.0	Fig.7	78×44×9 (No. 4086A)	<ul style="list-style-type: none"> <li>◆ ± Power supply</li> <li>◆ Pin-compatible with STK4144MK2 series, STK4144MK5 series</li> </ul>	
* STK4155MK5	30 + 30		± 42.0	± 28.5 ± 25.0				
* STK4165MK5	35 + 35		± 46.0	± 30.5 ± 26.5				
* STK4175MK5	40 + 40		± 49.0	± 32.5 ± 28.0				
* STK4185MK5	45 + 45		± 51.0	± 34.0 ± 30.0				
STK4195MK5	50 + 50		± 53.0	± 35.5 ± 32.0				
* STK4205MK5	60 + 60		± 57.0	± 39.0 —	Fig.8	90×53×8.5 (No. 4110A)		
* STK4215MK5	70 + 70		± 62.0	± 43.0 —				
* STK4225MK5	80 + 80		± 65.0	± 45.0 —				
* STK4235MK5	100 + 100		± 75.0	± 51.0 —				

\*:Under development

### 【Pin - compatibility of Output pins】

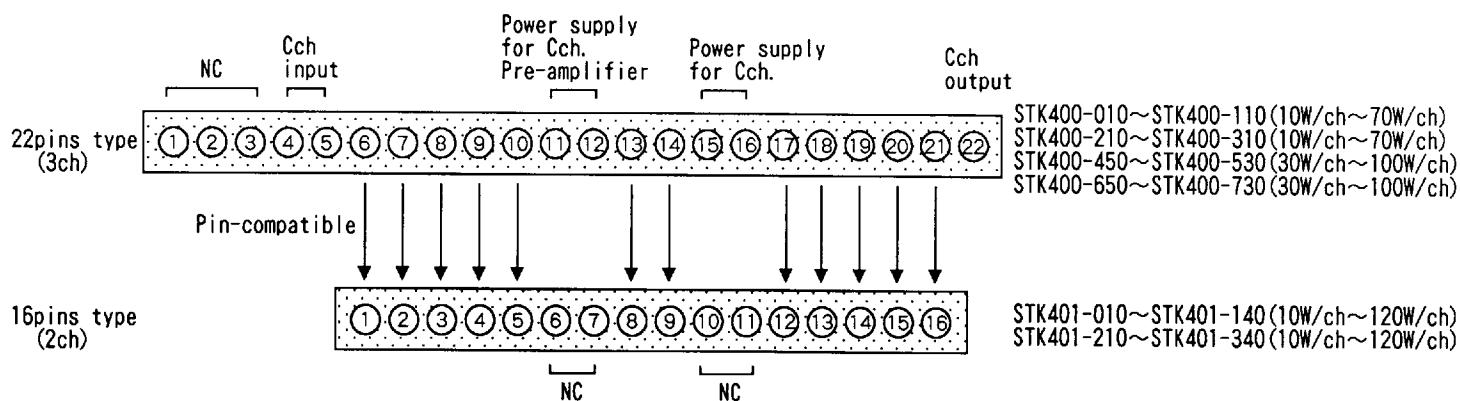


## ■ STK401-010 series/STK401-210 series

Type Number	Output power Po[W]	THD[%]	Vcc max[V]	Vcc [V]		Equivalent circuit	Case outline	Features	
				R <sub>L</sub> = 6Ω	R <sub>L</sub> = 3Ω				
※ STK401-010	10 + 10	0.4	± 26	± 17.0	± 14	Fig.9	64×36.5×8.5 (No. 4134)	<ul style="list-style-type: none"> <li>◆ R<sub>L</sub>=6/3Ω</li> <li>◆ 2ch. /1package</li> <li>◆ ± Power supply</li> <li>◆ Pin-compatible with STK400-010 series, STK400-210 series, STK400-450 series, STK400-650 series</li> </ul>	
STK401-020	15 + 15		± 29	± 20.0	± 16				
STK401-030	20 + 20		± 34	± 23.0	± 19				
STK401-040	25 + 25		± 36	± 25.0	± 21				
STK401-050	30 + 30		± 39	± 26.0	± 22				
STK401-060	35 + 35		± 41	± 28.0	± 23				
STK401-070	40 + 40		± 44	± 30.0	± 24				
STK401-080	45 + 45		± 45	± 31.0	± 25				
STK401-090	50 + 50		± 47	± 32.0	± 26				
STK401-100	60 + 60		± 51	± 35.0	± 27	Fig.10	78×44×9 (No. 4029)		
STK401-110	70 + 70		± 56	± 38.0	—				
STK401-120	80 + 80		± 61	± 42.0	—				
STK401-130	100 + 100		± 65	± 45.0	—				
STK401-140	120 + 120		± 74	± 51.0	—	Fig.11			
※ STK401-210	10 + 10	0.08	± 26	± 17.5	± 14	Fig.12	64×36.5×8.5 (No. 4134)		
STK401-220	15 + 15		± 29	± 20.0	± 16				
※ STK401-230	20 + 20		± 34	± 23.0	± 19				
※ STK401-240	25 + 25		± 36	± 25.0	± 21				
※ STK401-250	30 + 30		± 39	± 26.0	± 22				
※ STK401-260	35 + 35		± 41	± 28.0	± 23				
※ STK401-270	40 + 40		± 44	± 30.0	± 24				
※ STK401-280	45 + 45		± 45	± 31.0	± 25				
※ STK401-290	50 + 50		± 47	± 32.0	± 26				
※ STK401-300	60 + 60		± 51	± 35.0	± 27	Fig.13	78×44×9 (No. 4029)		
※ STK401-310	70 + 70		± 56	± 38.0	—				
※ STK401-320	80 + 80		± 61	± 42.0	—				
※ STK401-330	100 + 100		± 65	± 45.0	—				
※ STK401-340	120 + 120		± 74	± 51.0	—	Fig.14			

\*:Under development

### 【Pin-compatibility of Output pins】



# Main Characteristics

## ■ STK400-010 series / STK400-210 series / STK400-450 series / STK400-650 series

Type Number	Output power Po[W]	THD[%]	Vcc max[V]	Vcc [V]		Equivalent circuit	Case outline	Features	
				R <sub>L</sub> = 6 Ω	R <sub>L</sub> = 3 Ω				
※ STK400-010	10 + 10 + 10	0.4	± 26	± 17.0	± 14	Fig.15	78 × 44 × 9 (No. 4086A)	<ul style="list-style-type: none"> <li>◆ R<sub>L</sub>=6/3Ω</li> <li>◆ 3ch./1package</li> <li>(Same output power)</li> <li>◆ ±Power supply</li> <li>◆ Pin-compatible with STK401-010 series, STK401-210 series, STK400-450 series, STK400-650 series</li> </ul>	
STK400-020	15 + 15 + 15		± 29	± 20.0	± 16				
※ STK400-030	20 + 20 + 20		± 34	± 23.0	± 19				
STK400-040	25 + 25 + 25		± 36	± 25.0	± 21				
STK400-050	30 + 30 + 30		± 39	± 26.0	± 22				
※ STK400-060	35 + 35 + 35		± 41	± 28.0	± 23				
※ STK400-070	40 + 40 + 40		± 44	± 30.0	± 24				
※ STK400-080	45 + 45 + 45		± 45	± 31.0	± 25				
STK400-090	50 + 50 + 50		± 47	± 32.0	± 26				
※ STK400-100	60 + 60 + 60		± 51	± 35.0	± 27	Fig.16	90 × 53 × 8.5 (No. 4145)		
※ STK400-110	70 + 70 + 70		± 56	± 38.0	—				
※ STK400-210	10 + 10 + 10	0.08	± 26	± 17.5	± 14	Fig.17	78 × 44 × 9 (No. 4086A)	<ul style="list-style-type: none"> <li>◆ R<sub>L</sub>=6/3Ω</li> <li>◆ 3ch./1package</li> <li>(Same output power)</li> <li>◆ ±Power supply</li> <li>◆ Pin-compatible with STK401-010 series, STK401-210 series, STK400-450 series, STK400-650 series</li> </ul>	
※ STK400-220	15 + 15 + 15		± 29	± 20.0	± 16				
※ STK400-230	20 + 20 + 20		± 34	± 23.0	± 19				
※ STK400-240	25 + 25 + 25		± 36	± 25.0	± 21				
※ STK400-250	30 + 30 + 30		± 39	± 26.0	± 22				
※ STK400-260	35 + 35 + 35		± 41	± 28.0	± 23				
※ STK400-270	40 + 40 + 40		± 44	± 30.0	± 24				
※ STK400-280	45 + 45 + 45		± 45	± 31.0	± 25				
STK400-290	50 + 50 + 50		± 47	± 32.0	± 26				
※ STK400-300	60 + 60 + 60		± 51	± 35.0	± 27	Fig.18	90 × 53 × 8.5 (No. 4145)		
※ STK400-310	70 + 70 + 70		± 56	± 38.0	—				
※ STK400-450	15 + 30 + 15	0.4	± 39	± 26.0	± 22.0	Fig.15	78 × 44 × 9 (No. 4086A)	<ul style="list-style-type: none"> <li>◆ R<sub>L</sub>=6/3Ω</li> <li>◆ 3ch./1package</li> <li>(2ch. + Center ch.)</li> <li>◆ ±Power supply × 2</li> <li>◆ Pin-compatible with STK401-010 series, STK401-210 series, STK400-010 series, STK400-210 series</li> </ul>	
※ STK400-460	15 + 35 + 15		± 41	± 28.0	± 23.0				
※ STK400-470	20 + 40 + 20		± 44	± 30.0	± 24.0				
※ STK400-480	20 + 45 + 20		± 45	± 31.0	± 25.0				
※ STK400-490	25 + 50 + 25		± 47	± 32.0	± 26.0				
※ STK400-500	30 + 60 + 30		± 51	± 35.0	± 27.0	Fig.19	90 × 53 × 8.5 (No. 4145)		
※ STK400-510	35 + 70 + 35		± 56	± 38.0	—				
※ STK400-520	40 + 80 + 40		± 61	± 42.0	—				
※ STK400-530	50 + 100 + 50		± 65	± 45.0	—	Fig.20			
※ STK400-650	15 + 30 + 15	0.08	± 39	± 26.0	± 22.0	Fig.17	78 × 44 × 9 (No. 4086A)	<ul style="list-style-type: none"> <li>◆ R<sub>L</sub>=6/3Ω</li> <li>◆ 3ch./1package</li> <li>(2ch. + Center ch.)</li> <li>◆ ±Power supply × 2</li> <li>◆ Pin-compatible with STK401-010 series, STK401-210 series, STK400-010 series, STK400-210 series</li> </ul>	
※ STK400-660	15 + 35 + 15		± 41	± 28.0	± 23.0				
※ STK400-670	20 + 40 + 20		± 44	± 30.0	± 24.0				
※ STK400-680	20 + 45 + 20		± 45	± 31.0	± 25.0				
※ STK400-690	25 + 50 + 25		± 47	± 32.0	± 26.0				
※ STK400-700	30 + 60 + 30		± 51	± 35.0	± 27.0	Fig.21	90 × 53 × 8.5 (No. 4145)		
※ STK400-710	35 + 70 + 35		± 56	± 38.0	—				
※ STK400-720	40 + 80 + 40		± 61	± 42.0	—				
※ STK400-730	50 + 100 + 50		± 65	± 45.0	—	Fig.22			

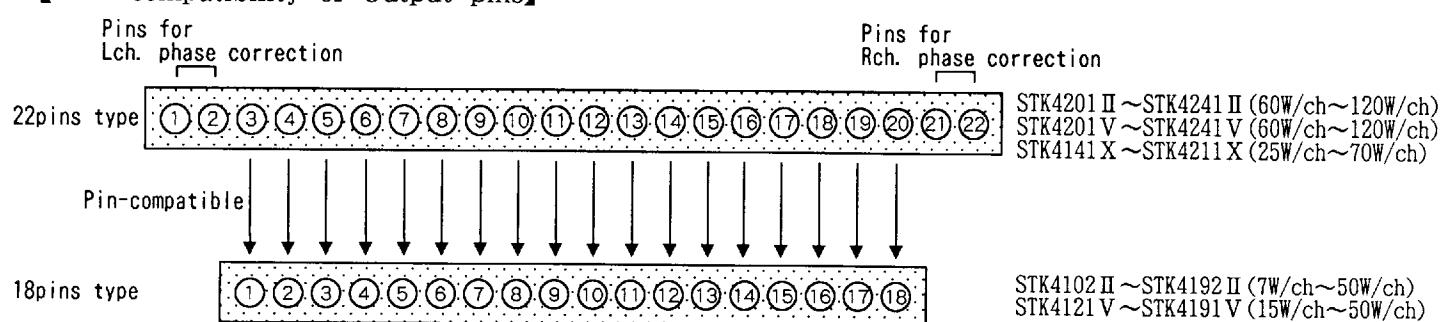
\*:Under development

**[Caution]** In case of 3 channel different output STK400-450, STK400-650 series, maximum power supply Vccmax and recommend power supply Vcc in the list shows numerical value of power supply of center channel. The numerical value of the power supply for L, R channel is same as 2 channel amplifier STK401-010 series which is same output.

■ STK4102 II series/STK4201 II series/STK4121 V series/  
STK4141 X series/STK4196 X series

Type Number	Output power $P_o$ [W]	THD[%]	Vcc max[V]	Vcc [V] $R_L = 8\Omega$ $R_L = 4\Omega$	Equivalent circuit	Case outline	Features	
STK4102 II	6 + 6	0.4	$\pm 20.5$	$\pm 13.2$ $\pm 12.0$	Fig.23	64×31×8.5 (No. 4083)		
STK4112 II	10 + 10		$\pm 26.0$	$\pm 17.0$ $\pm 14.0$				
STK4122 II	15 + 15		$\pm 30.5$	$\pm 20.0$ $\pm 17.0$				
STK4132 II	20 + 20		$\pm 34.5$	$\pm 23.0$ $\pm 20.0$				
STK4142 II	25 + 25		$\pm 39.0$	$\pm 26.0$ $\pm 22.0$				
STK4152 II	30 + 30		$\pm 42.0$	$\pm 27.5$ $\pm 25.0$				
STK4162 II	35 + 35		$\pm 45.0$	$\pm 30.0$ $\pm 27.0$				
STK4172 II	40 + 40		$\pm 48.0$	$\pm 32.0$ $\pm 29.0$				
STK4182 II	45 + 45		$\pm 50.0$	$\pm 33.5$ $\pm 30.5$				
STK4192 II	50 + 50		$\pm 52.5$	$\pm 35.0$ $\pm 31.0$				
STK4201 II	60 + 60	0.4	$\pm 55.0$	$\pm 38.0$ —	Fig.24	78×44×9 (No. 4086A)		
STK4211 II	70 + 70		$\pm 60.0$	$\pm 42.0$ —				
STK4221 II	80 + 80		$\pm 65.0$	$\pm 45.0$ —				
STK4231 II	100 + 100		$\pm 75.0$	$\pm 51.0$ —				
STK4241 II	120 + 120		$\pm 77.0$	$\pm 53.0$ —				
STK4121 V	15 + 15	0.08	$\pm 32.0$	$\pm 21.5$ $\pm 19.0$	Fig.25	64×36.5×8.5 (No. 4040)		
STK4131 V	20 + 20		$\pm 36.0$	$\pm 24.5$ $\pm 22.0$				
STK4141 V	25 + 25		$\pm 40.5$	$\pm 27.0$ $\pm 24.0$				
STK4151 V	30 + 30		$\pm 42.0$	$\pm 28.0$ $\pm 25.0$				
STK4161 V	35 + 35		$\pm 46.0$	$\pm 30.5$ $\pm 26.5$				
STK4171 V	40 + 40		$\pm 49.0$	$\pm 32.5$ $\pm 28.0$				
STK4181 V	45 + 45		$\pm 51.0$	$\pm 34.0$ $\pm 30.0$				
STK4191 V	50 + 50		$\pm 53.0$	$\pm 35.5$ $\pm 32.0$				
STK4201 V	60 + 60		$\pm 57.0$	$\pm 39.0$ —	Fig.26	78×44×9 (No. 4086A)		
STK4211 V	70 + 70		$\pm 62.0$	$\pm 43.0$ —				
STK4221 V	80 + 80		$\pm 65.0$	$\pm 45.0$ —				
STK4231 V	100 + 100		$\pm 75.0$	$\pm 51.0$ —				
STK4241 V	120 + 120		$\pm 78.0$	$\pm 54.0$ —				
STK4141 X	25 + 25	0.02	$\pm 41.0$	$\pm 27.5$ $\pm 24.5$	Fig.27	105×32×8.5 (No. 4146)		
STK4151 X	30 + 30		$\pm 42.5$	$\pm 29.0$ $\pm 25.5$				
STK4171 X	40 + 40		$\pm 49.5$	$\pm 33.0$ $\pm 28.5$				
STK4191 X	50 + 50		$\pm 53.5$	$\pm 36.0$ $\pm 32.5$				
STK4201 X	60 + 60		$\pm 57.5$	$\pm 39.5$ —				
STK4211 X	70 + 70		$\pm 62.5$	$\pm 43.5$ —				
STK4196 X	50 + 50	0.05	$\pm 53.5$	— $\pm 29.0$	Fig.28			
STK4216 X	70 + 70		$\pm 62.5$	— $\pm 34.0$				

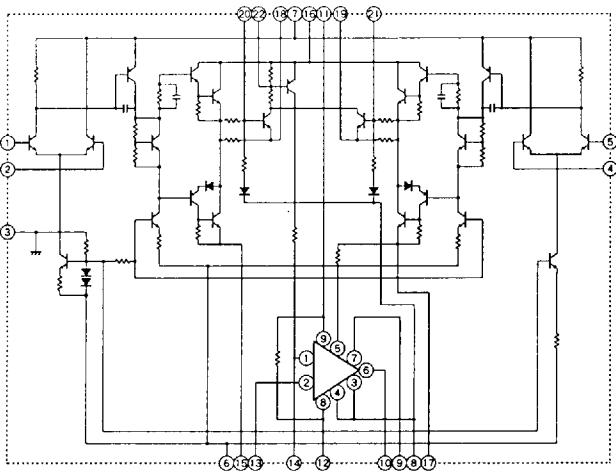
【Pin - compatibility of Output pins】



# ■ Equivalent Circuit

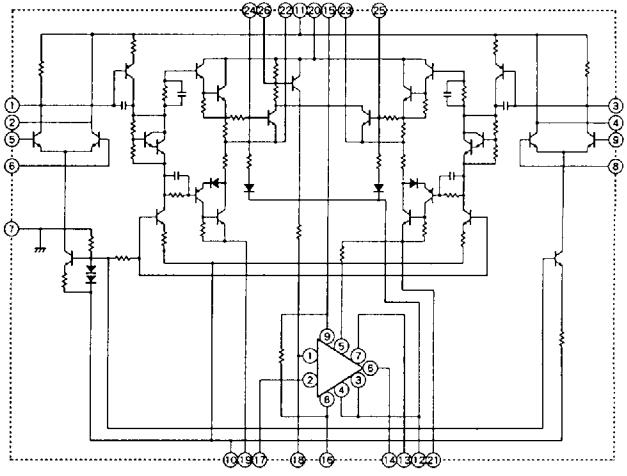
**Figure 1**

STK4144MK2 to STK4194MK2



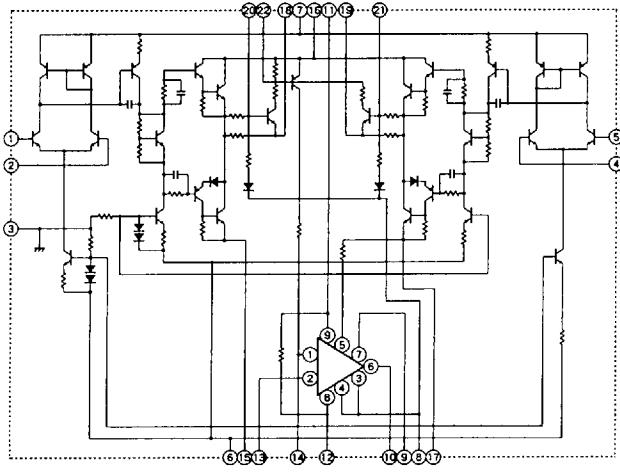
**Figure 2**

STK4204MK2 to STK4234MK2



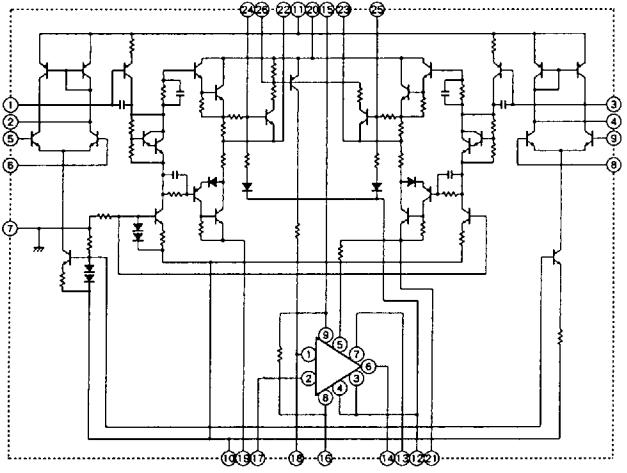
**Figure 3**

STK4144MK5 to STK4194MK5



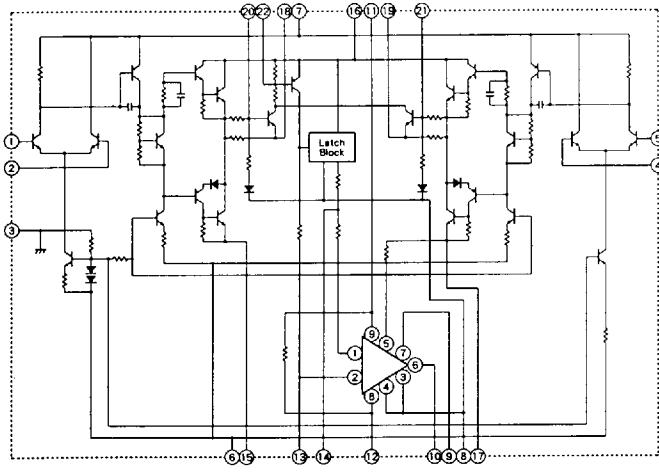
**Figure 4**

STK4204MK5 to STK4234MK5



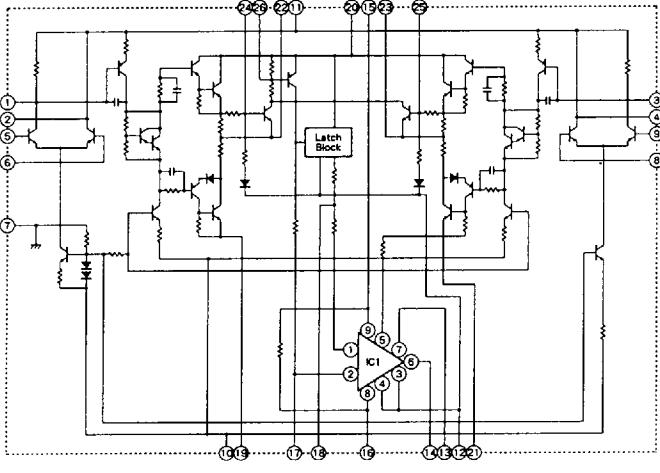
**Figure 5**

STK4145MK2 to STK4195MK2

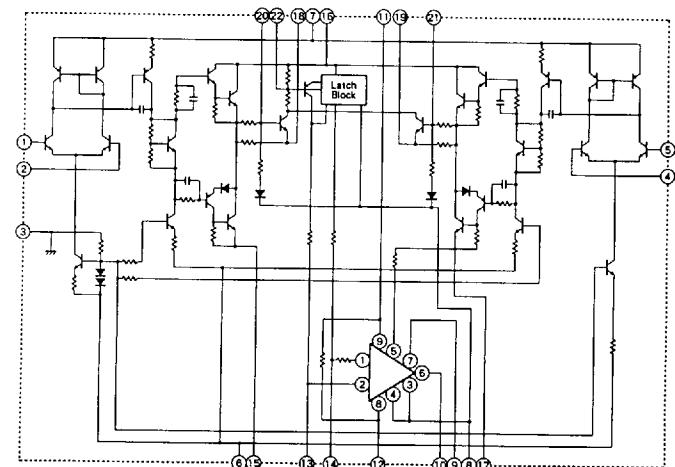


**Figure 6**

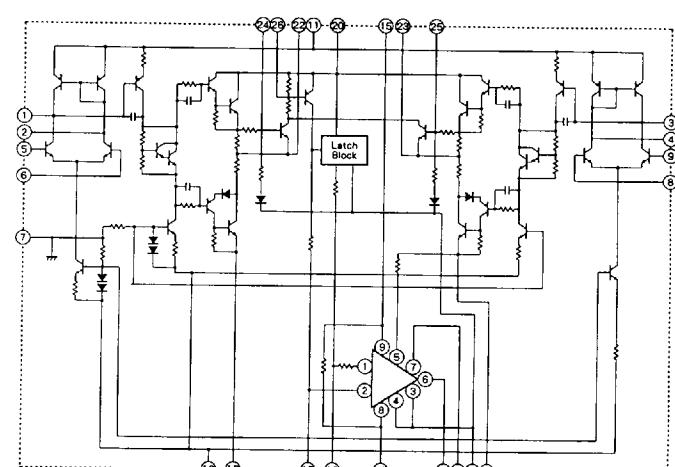
STK4205MK2 to STK4235MK2



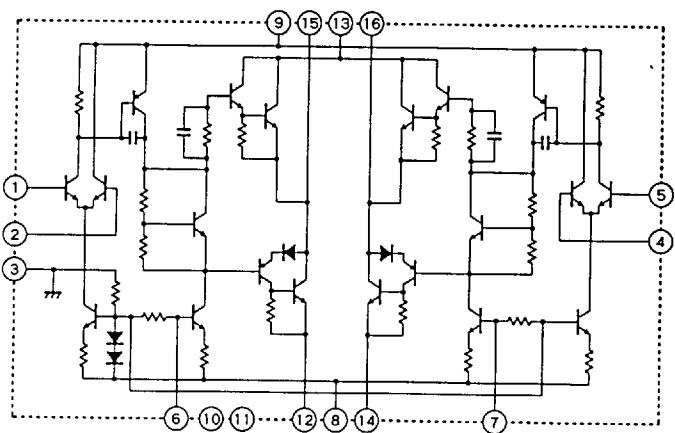
**Figure 7** STK4145MK5 to STK4195MK5



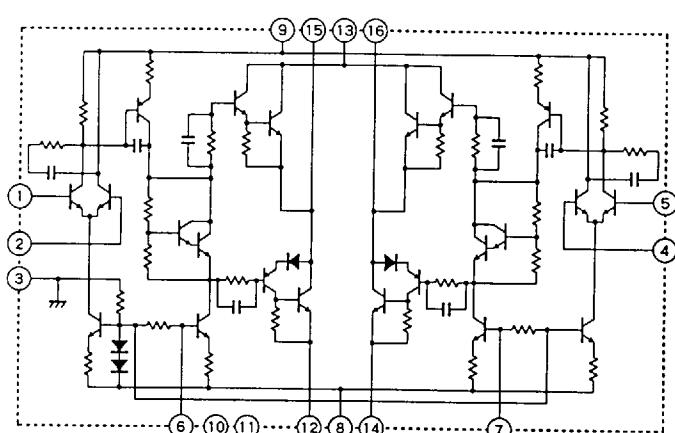
**Figure 8** STK4205MK5 to STK4235MK5



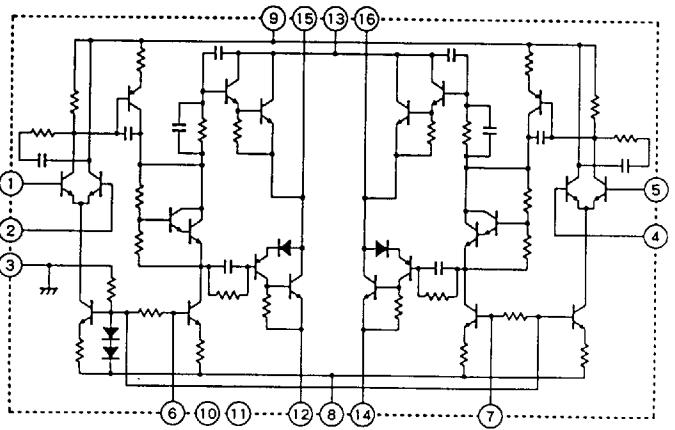
**Figure 9** STK401 - 010 to STK401 - 090



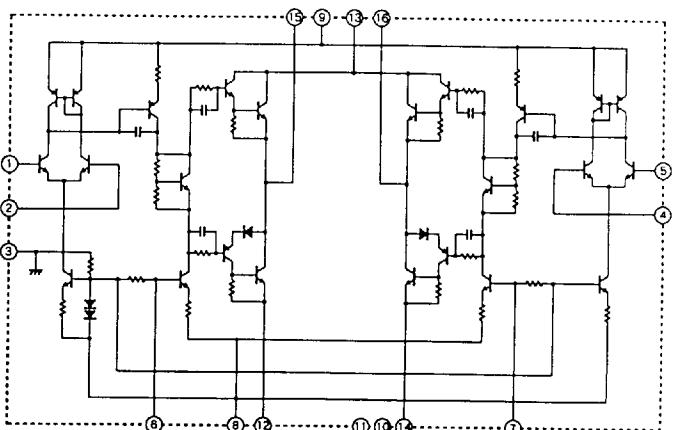
**Figure 10** STK401 - 100 to STK401 - 120



**Figure 11** STK401 - 130 , STK401 - 140



**Figure 12** STK401 - 210 to STK401 - 290



# ■ Equivalent Circuit

Figure 13

STK401 - 300 to STK401 - 310

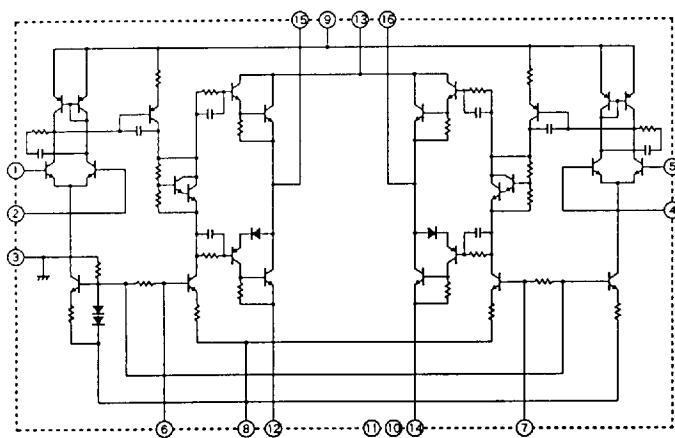


Figure 14

STK401 - 320 to STK401 - 340

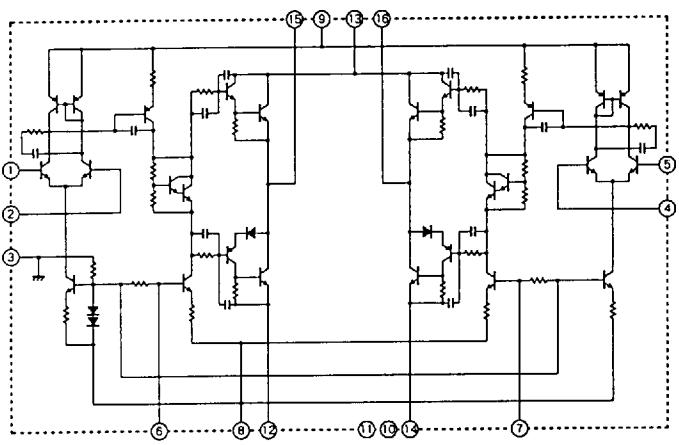


Figure 15

STK400 - 010 to STK400 - 090 , STK400 - 450 to STK400 - 490

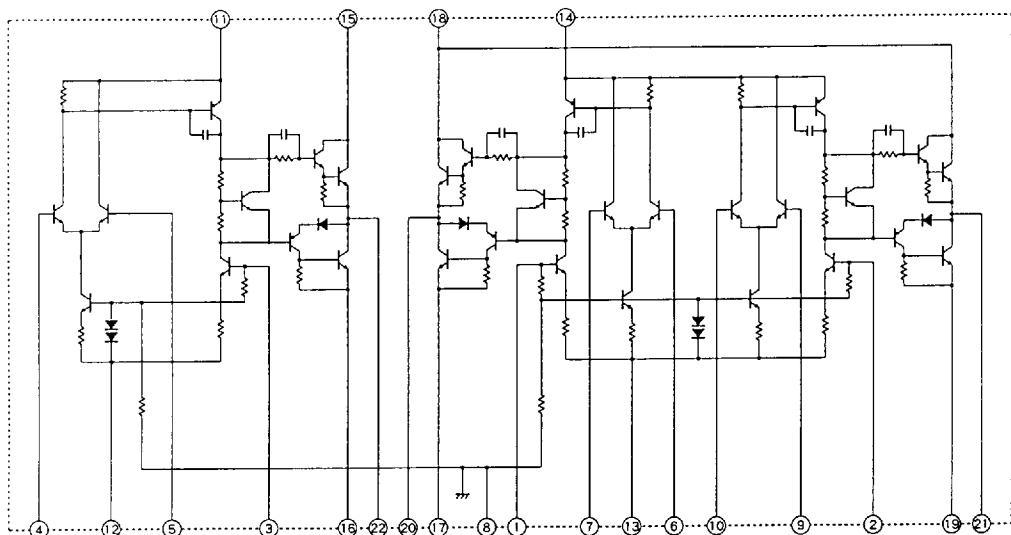
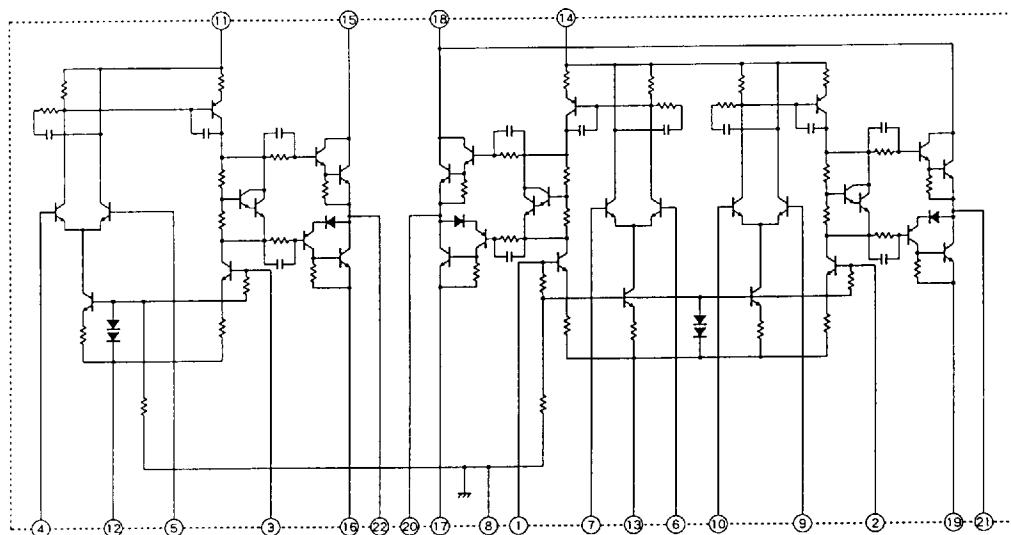


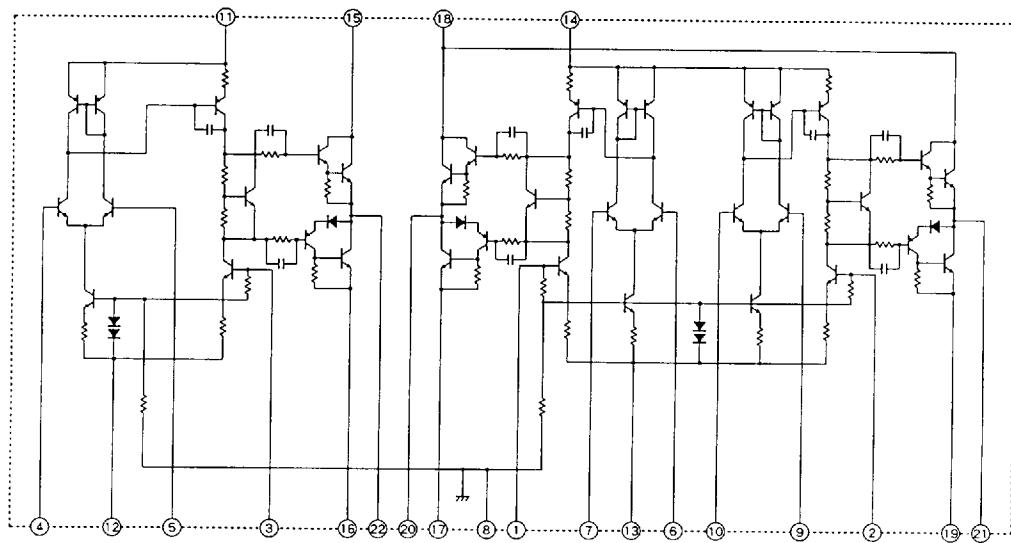
Figure 16

STK400 - 100 , STK400 - 110



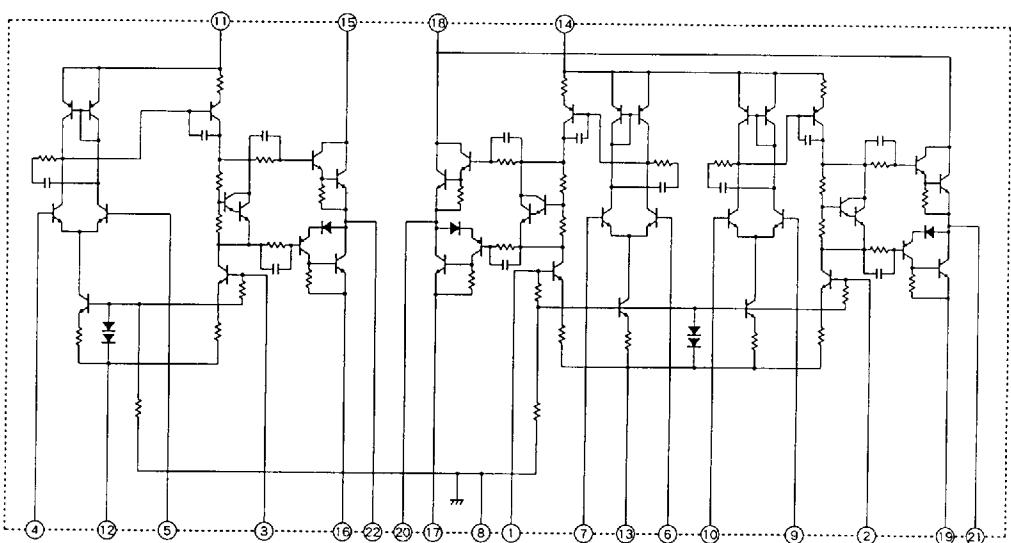
**Figure 17**

STK400 - 210 to STK400 - 290 , STK400 - 650 to STK400 - 690



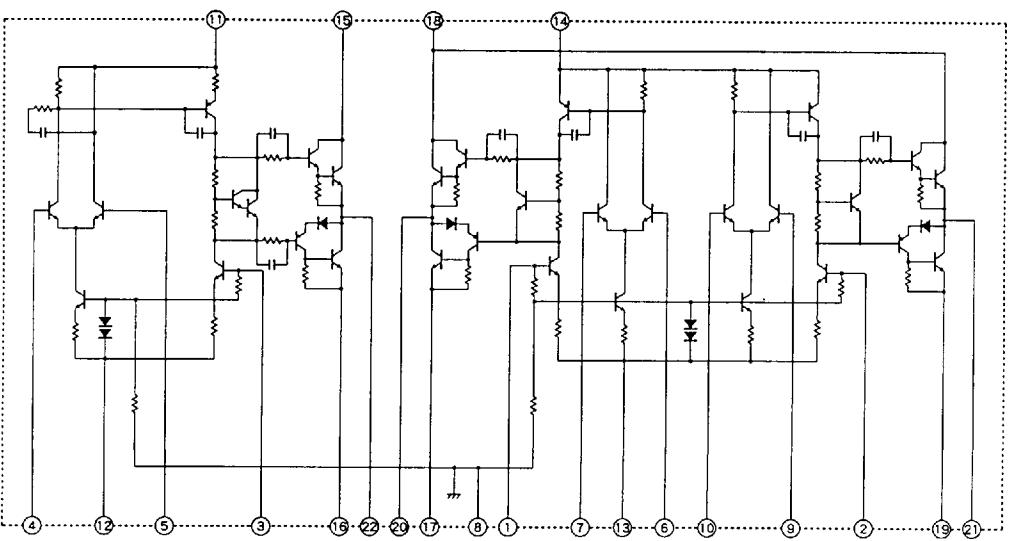
**Figure 18**

STK400 - 300 , STK400 - 310



**Figure 19**

STK400 - 500 to STK400 - 520



## ■ Equivalent Circuit

Figure 20

STK400-530

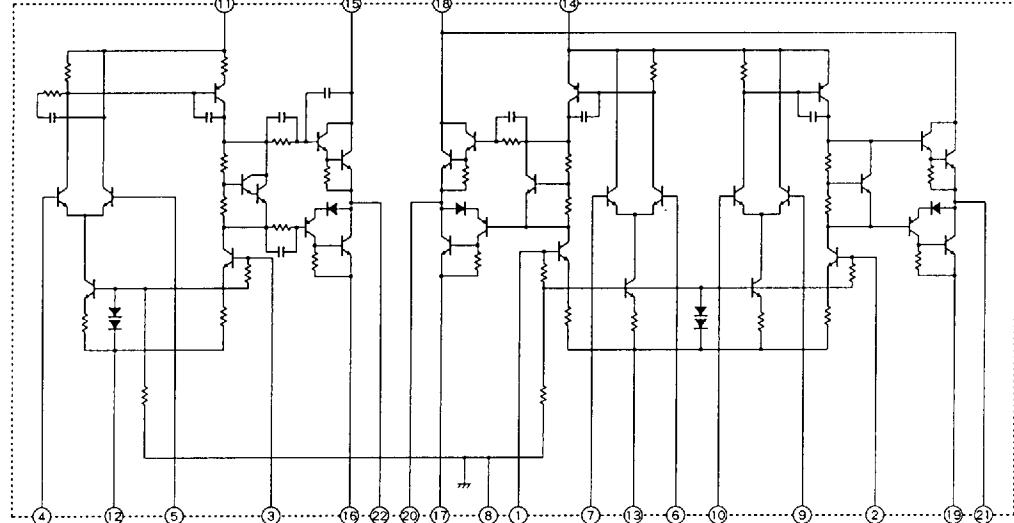


Figure 21

STK400-700 , STK400-710

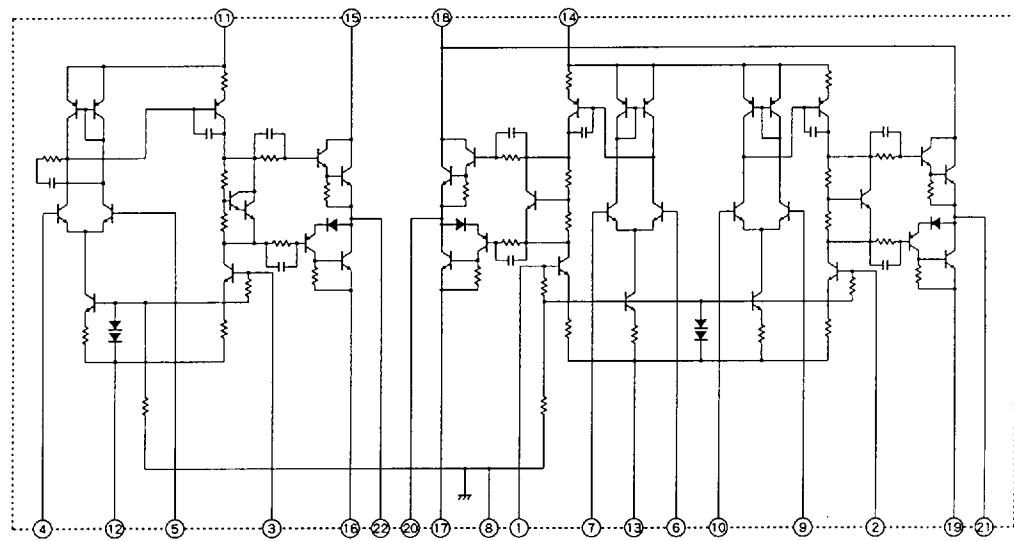
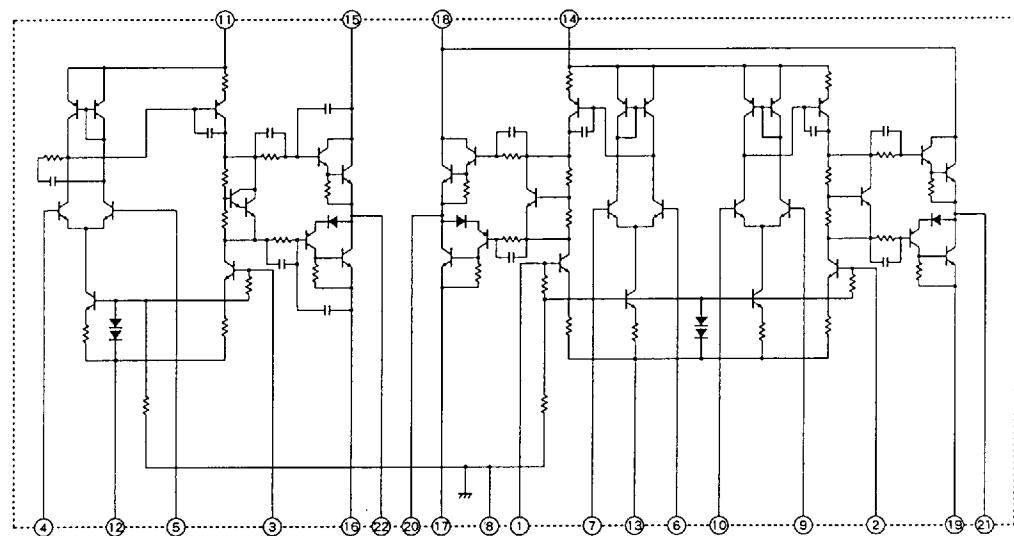


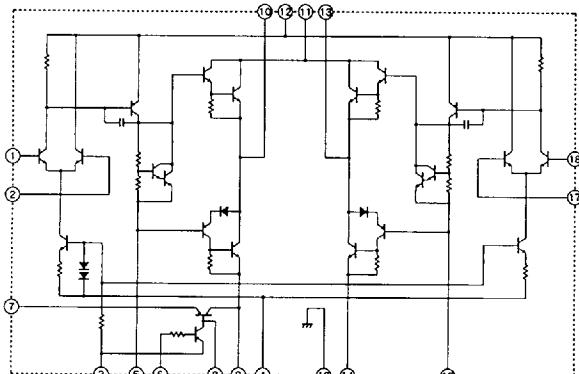
Figure 22

STK400-720 , STK400-730



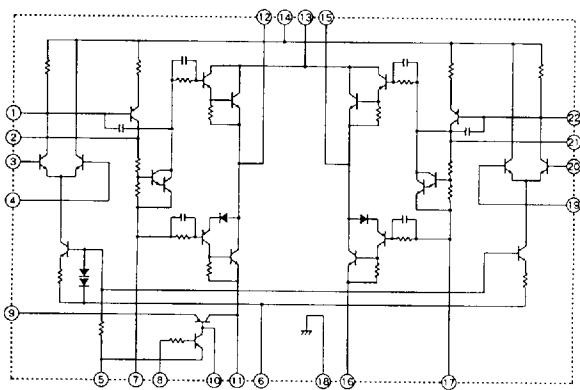
**Figure 23**

STK4102 II to STK4192 II



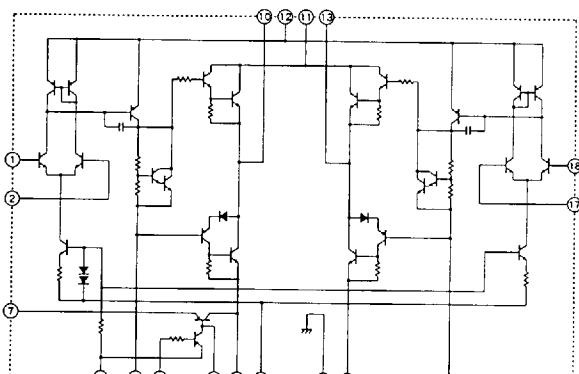
**Figure 24**

STK4201 II to STK4241 II



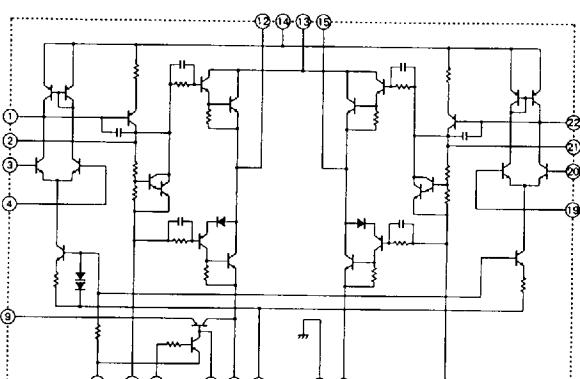
**Figure 25**

STK4121 V to STK4191 V



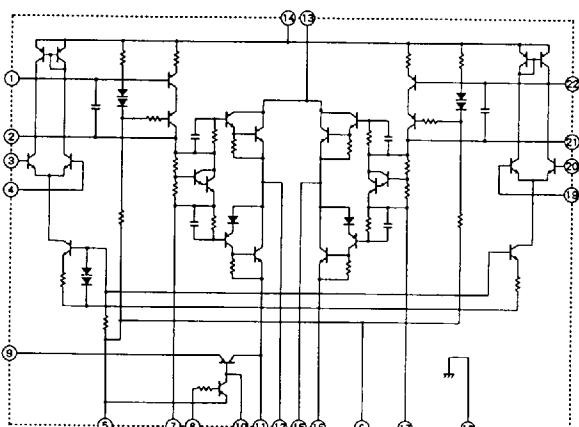
**Figure 26**

STK4201 V to STK4241 V



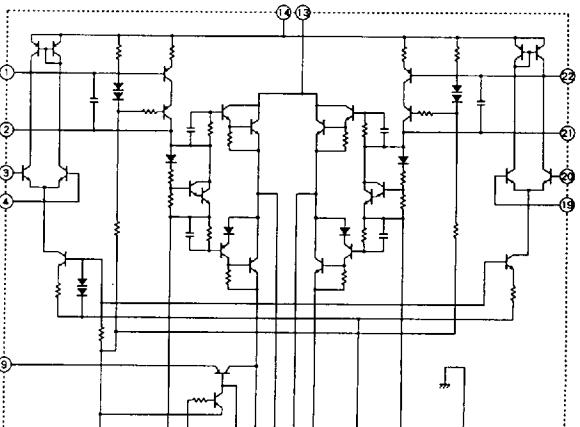
**Figure 27**

STK4141 X to STK4211 X

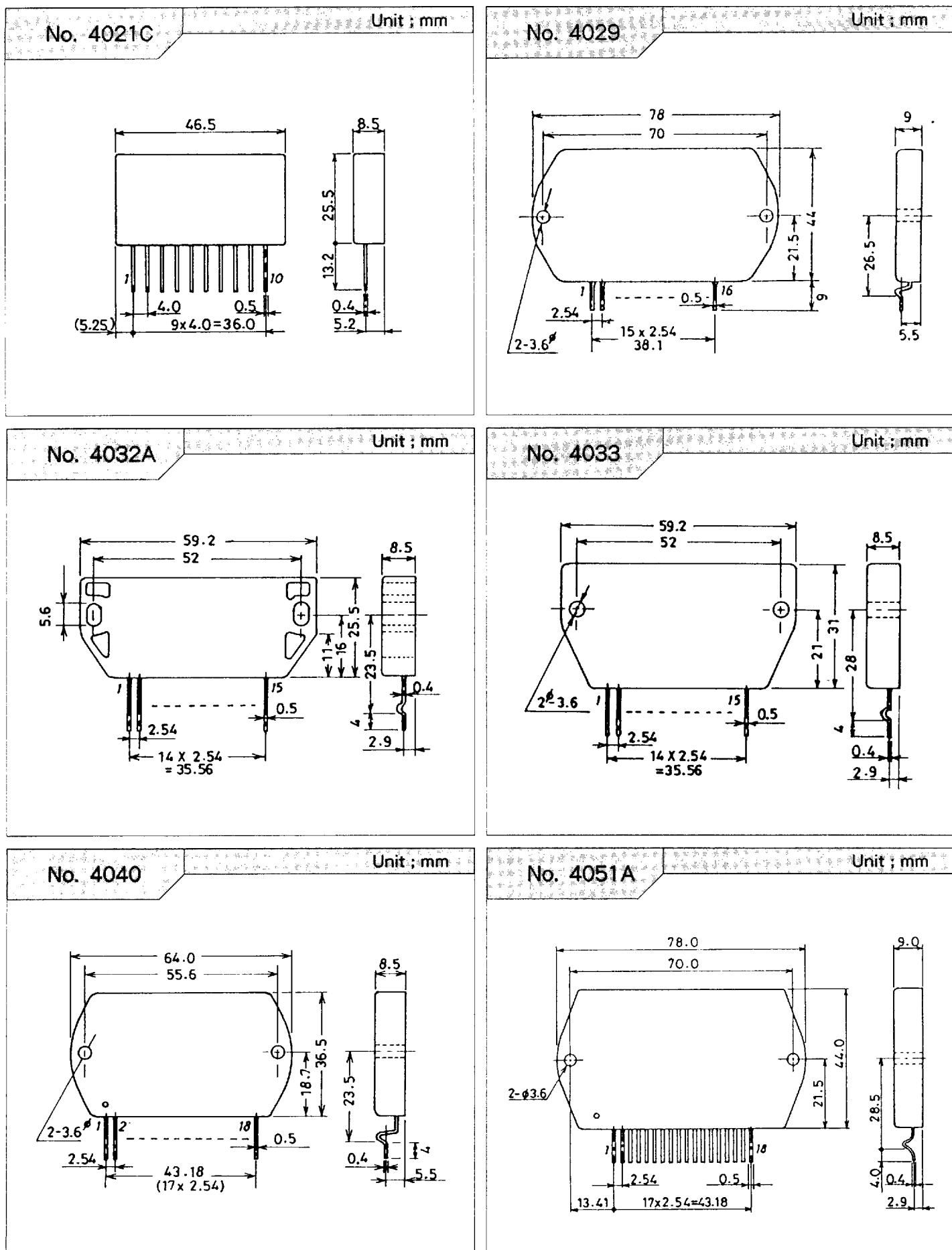


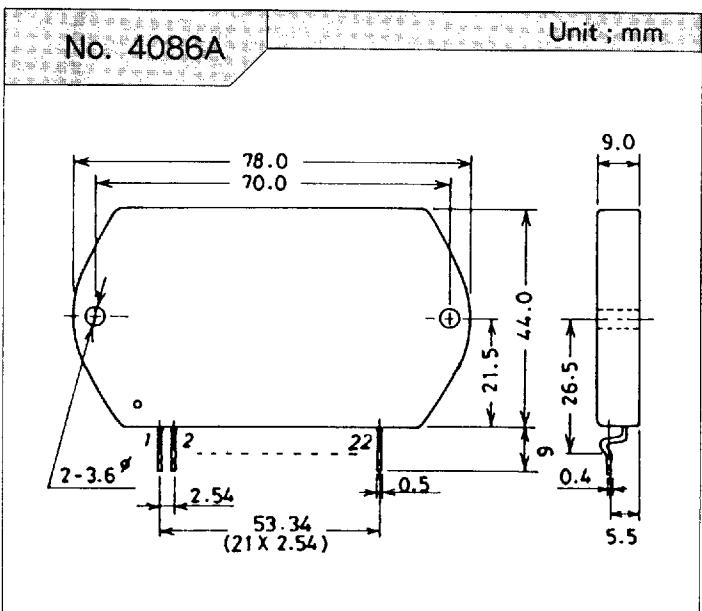
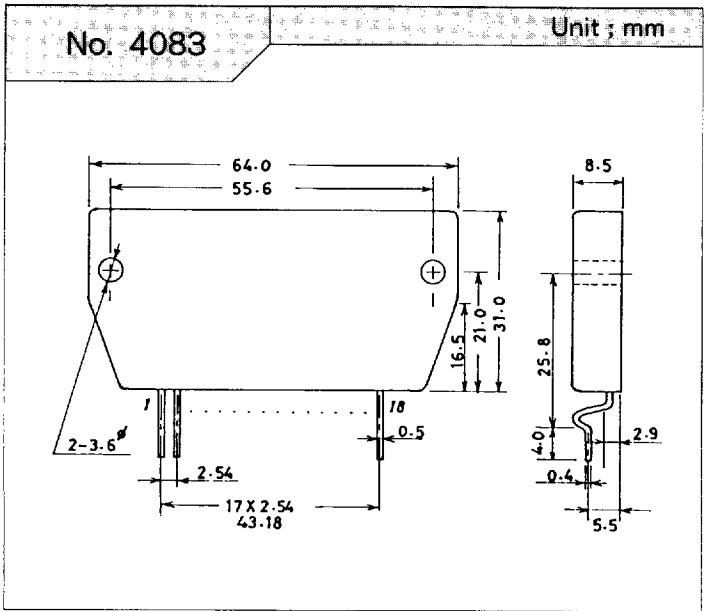
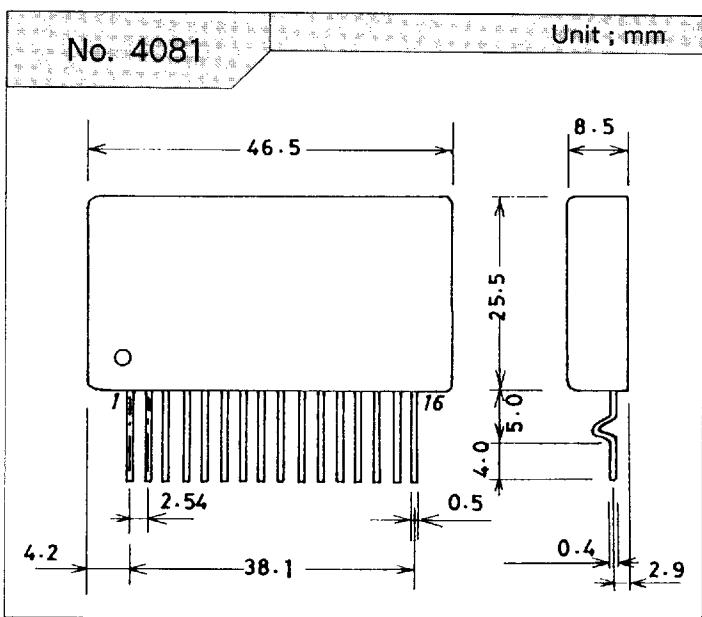
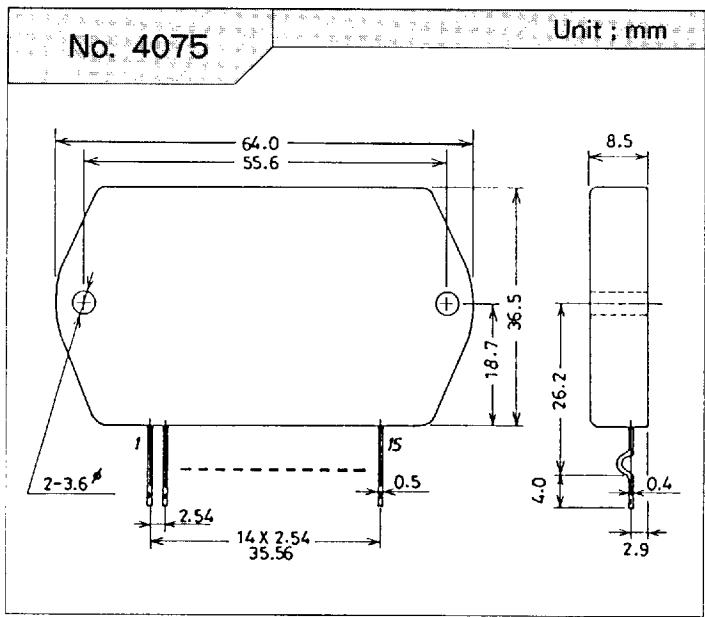
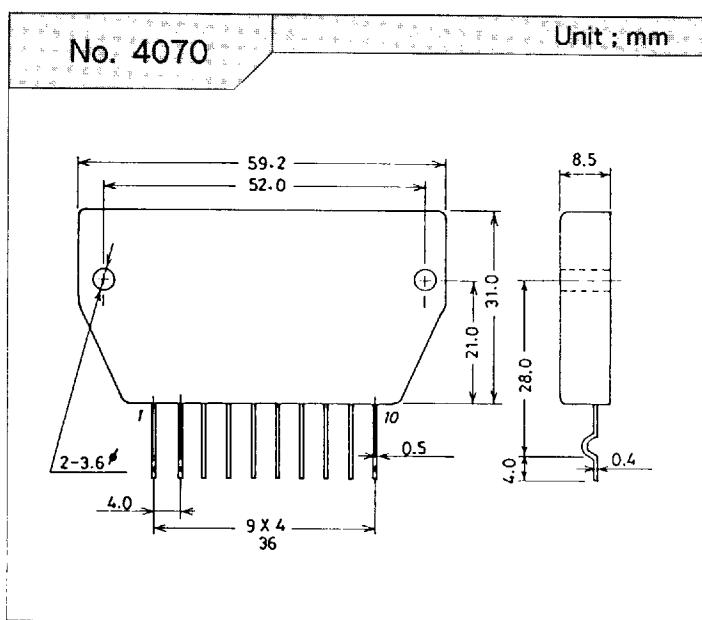
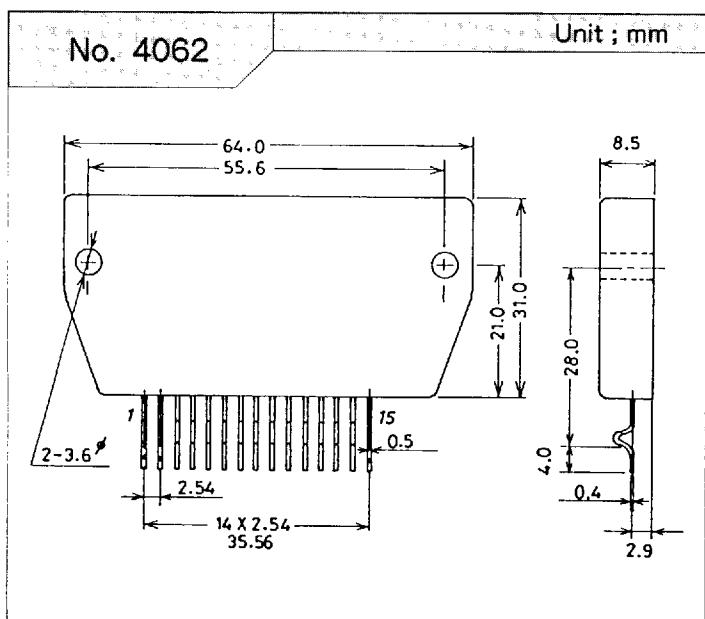
**Figure 28**

STK4196 X to STK4216 X



# Case Outline

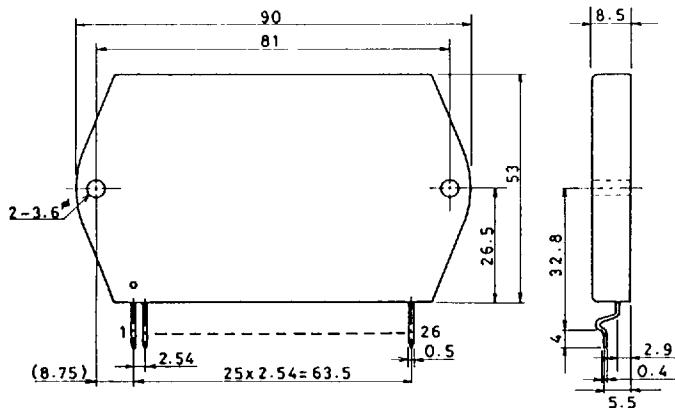




# ■ Case Outline

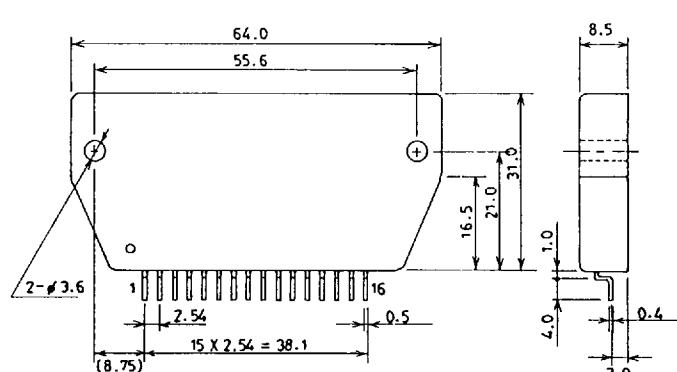
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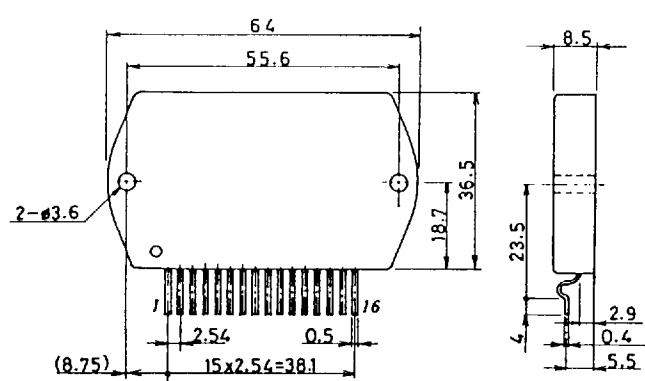
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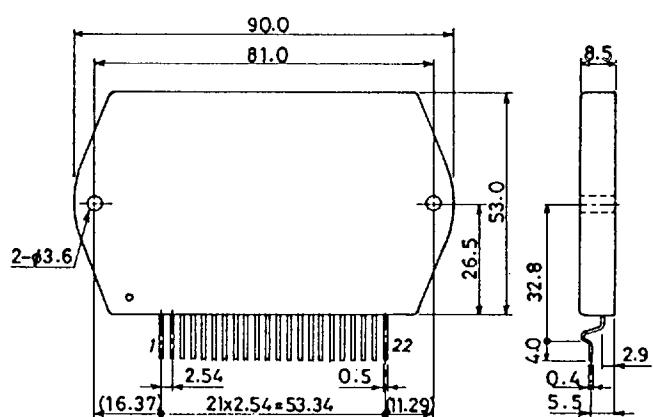
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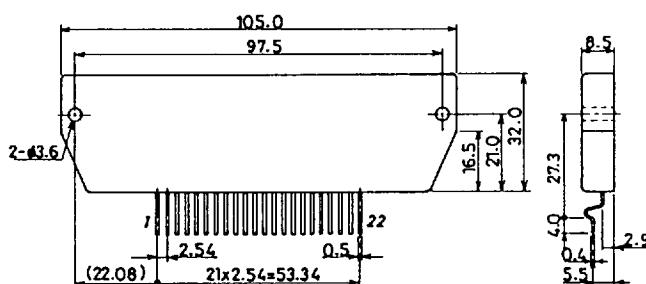
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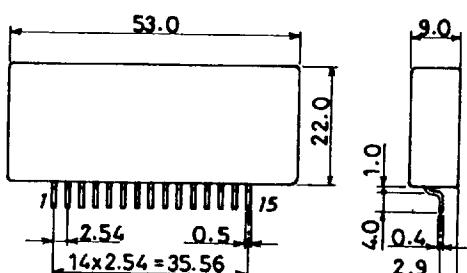
No. 4146

Unit : mm



No. 4147

Unit : mm



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